

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

PCT

(10) International Publication Number
WO 2004/092931 A3

(51) International Patent Classification⁷: **G06F 1/00**

(21) International Application Number:
PCT/IB2004/050429

(22) International Filing Date: 14 April 2004 (14.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03101065.5 17 April 2003 (17.04.2003) EP

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **FONTIJN, Wilhelmus, F., J.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agent: **GROENENDAAL, Antonius, W., M.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

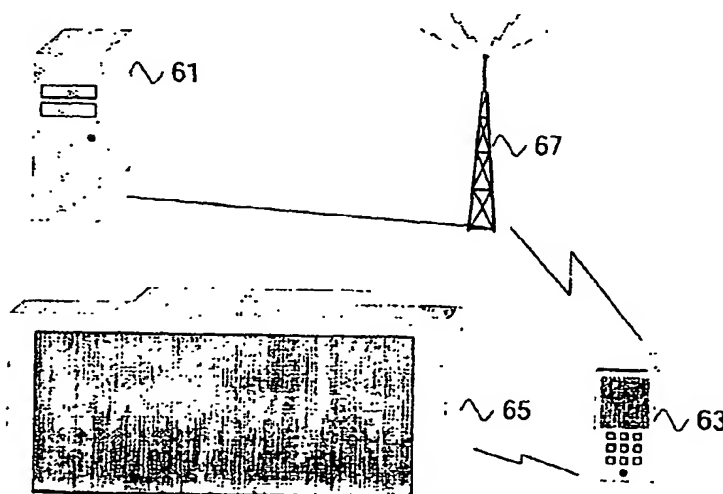
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

[Continued on next page]

(54) Title: **METHOD AND SYSTEM FOR MANAGING DIGITAL RIGHTS**



(57) Abstract: In the method of the invention, a request for a digital right to an encrypted content item is transmitted to a server (61). The request contains a circuit identifier identifying an integrated circuit and a content identifier identifying the encrypted content. Subsequently, an encrypted digital right, being encrypted by using a public key associated with the integrated circuit, is received from the server (61). Furthermore, the integrated circuit is instructed to decrypt the encrypted digital right by using a private key associated with the integrated circuit and to store the digital right in the integrated circuit. The private key is being stored in the integrated circuit. The system of the invention contains a client (63) performing the method and a server (61) as referred to in the method. The electronic device performs the method of the invention.



CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

7 April 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/050429

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G06F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/059238 A1 (SAITO MAKOTO) 16 May 2002 (2002-05-16) abstract; figures 1,2,4 paragraph [0001] - paragraph [0005] paragraph [0040] - paragraph [0041] paragraph [0062] - paragraph [0068] paragraph [0121] - paragraph [0128] paragraph [0292]	1-3,8
X	US 6 002 772 A (SAITO MAKOTO) 14 December 1999 (1999-12-14) abstract; figures 1,2 column 5, line 14 - column 6, line 2	1-3,8
A	WO 00/59151 A (MICROSOFT CORP) 5 October 2000 (2000-10-05) abstract; figures 1,3 page 18, line 1 - line 27 page 16, line 20 - page 17, line 24	1-3,8

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

4 November 2004

Date of mailing of the international search report

10/02/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Harms, C

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050429

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002059238	A1	16-05-2002	US 6002772 A	14-12-1999
			DE 69532153 D1	24-12-2003
			DE 69532153 T2	02-09-2004
			EP 0704785 A2	03-04-1996
			JP 8185448 A	16-07-1996
			JP 2003242286 A	29-08-2003
			JP 2003250136 A	05-09-2003
			JP 2004072792 A	04-03-2004
			US 6744894 B1	01-06-2004
			US 2003012385 A1	16-01-2003
			US 2003144963 A1	31-07-2003
			US 6449717 B1	10-09-2002
			US 6069952 A	30-05-2000
			US 2002025044 A1	28-02-2002
			DE 69532434 D1	19-02-2004
			DE 69532434 T2	11-11-2004
			EP 0715241 A2	05-06-1996
			JP 8287014 A	01-11-1996
			JP 2004303265 A	28-10-2004
			US 2002052850 A1	02-05-2002
			US 2002112173 A1	15-08-2002
			US 6408390 B1	18-06-2002
			US 6789197 B1	07-09-2004
			US 2001013021 A1	09-08-2001
			US 5867579 A	02-02-1999
			US 6424715 B1	23-07-2002
			US 6128605 A	03-10-2000
			US 5974141 A	26-10-1999

US 6002772	A	14-12-1999	US 2002059238 A1	16-05-2002
			US 2003012385 A1	16-01-2003
			US 2003144963 A1	31-07-2003
			US 5974141 A	26-10-1999
			US 2002052850 A1	02-05-2002
			US 2002112173 A1	15-08-2002
			US 6408390 B1	18-06-2002
			US 6789197 B1	07-09-2004
			US 2001013021 A1	09-08-2001
			US 5867579 A	02-02-1999
			US 6424715 B1	23-07-2002
			US 6128605 A	03-10-2000

WO 0059151	A	05-10-2000	US 6775655 B1	10-08-2004
			AU 3007800 A	16-10-2000
			AU 3380900 A	16-10-2000
			AU 3381000 A	16-10-2000
			AU 3503900 A	16-10-2000
			AU 3608100 A	16-10-2000
			AU 3708700 A	16-10-2000
			AU 3710100 A	16-10-2000
			EP 1287636 A2	05-03-2003
			EP 1259863 A2	27-11-2002
			JP 2003522989 T	29-07-2003
			JP 2003536119 T	02-12-2003
			WO 0057684 A2	05-10-2000
			WO 0059150 A2	05-10-2000
			WO 0059151 A2	05-10-2000
			WO 0058859 A2	05-10-2000

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/050429

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0059151	A	WO 0058810 A2	05-10-2000
		WO 0059152 A2	05-10-2000
		WO 0058811 A2	05-10-2000
		US 2003078853 A1	24-04-2003
		US 6829708 B1	07-12-2004
		US 2002012432 A1	31-01-2002
		US 2002007456 A1	17-01-2002
		US 2002013772 A1	31-01-2002

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2004/050429

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-3, 8

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3, 8

encrypted distribution of digital content; rendering device being equipped with integrated circuit which requests digital right from server in order to decrypt distributed digital content;
content identifier identifying the encrypted content item

2. claim: 4

encrypted distribution of digital content; rendering device being equipped with integrated circuit which requests digital right from server in order to decrypt distributed digital content;
re-encryption of the digital right

3. claims: 5-6

encrypted distribution of digital content; rendering device being equipped with integrated circuit which requests digital right from server in order to decrypt distributed digital content;
binding the content decryption key to the integrated circuit

4. claim: 7

encrypted distribution of digital content; rendering device being equipped with integrated circuit which requests digital right from server in order to decrypt distributed digital content;
isolation of the decryption process in the integrated circuit

5. claims: 9-12

encrypted distribution of digital content; client device 63 requests a digital right for a rendering device 65 being equipped with integrated circuit in order to enable the integrated circuit with the decryption of the encrypted digital content;
the client device and the rendering device being two separate devices
